

### Abstract

A rotational position sensor includes a rotor having a magnetic member thereon, with a positive pole positioned at one point on the outer circumference of the rotor and a negative pole on the circumference of the rotor 180 degrees from the positive pole. The angular position sensor includes a housing with a detector thereon for detecting the magnetic polarity of the portion of the rotor nearest the detector. The output from the detector is an AC current, the wave of which is indicative of the angular orientation of the shaft around which the rotor is mounted.